



A.D. 1795 N^o 2056.

S P E C I F I C A T I O N

OF

RICHARD WEIGHTMAN.

REGISTER STOVES, GRATES, &c.

L O N D O N :

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WEIGHTMAN'S SPECIFICATION.

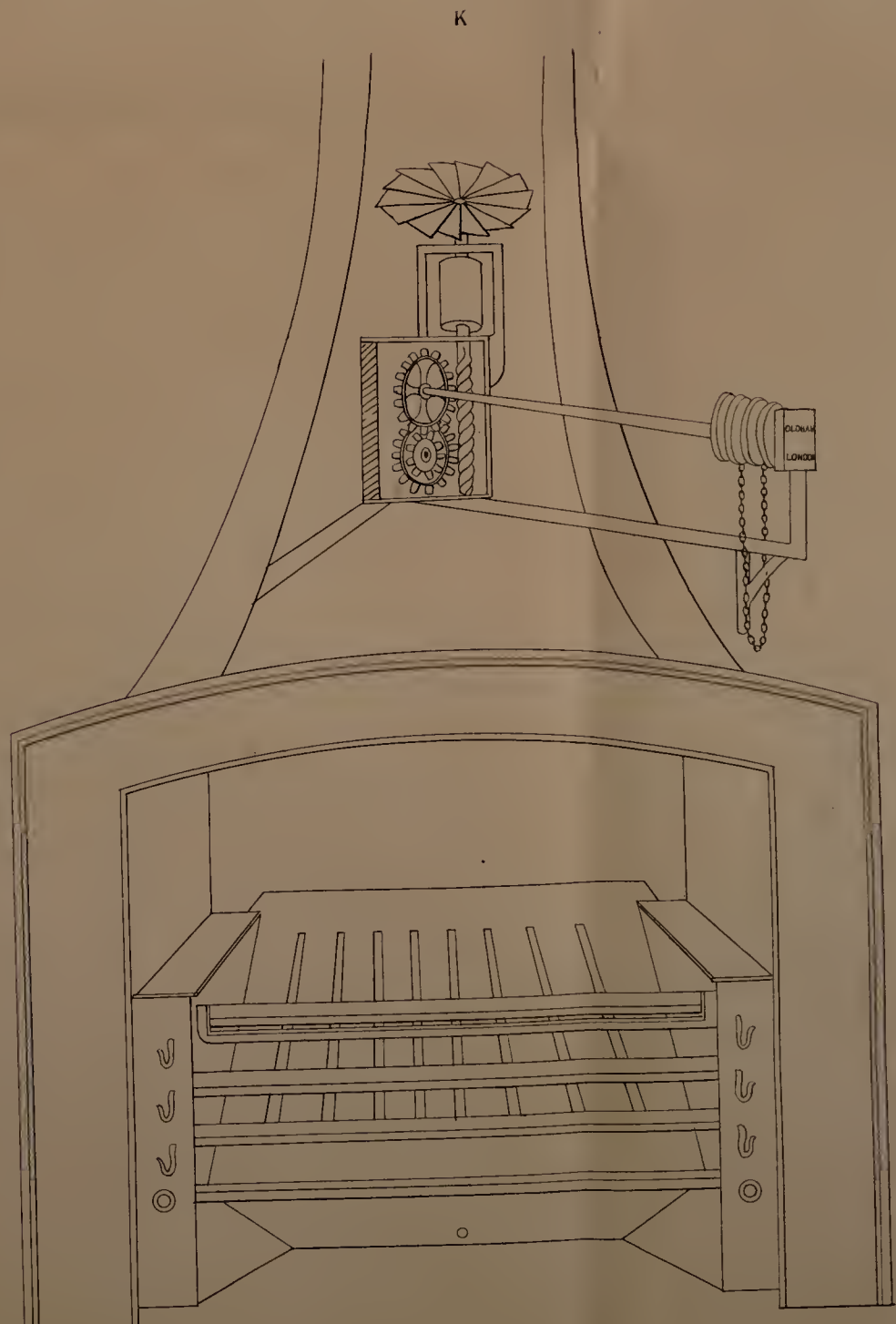
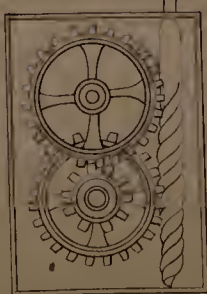
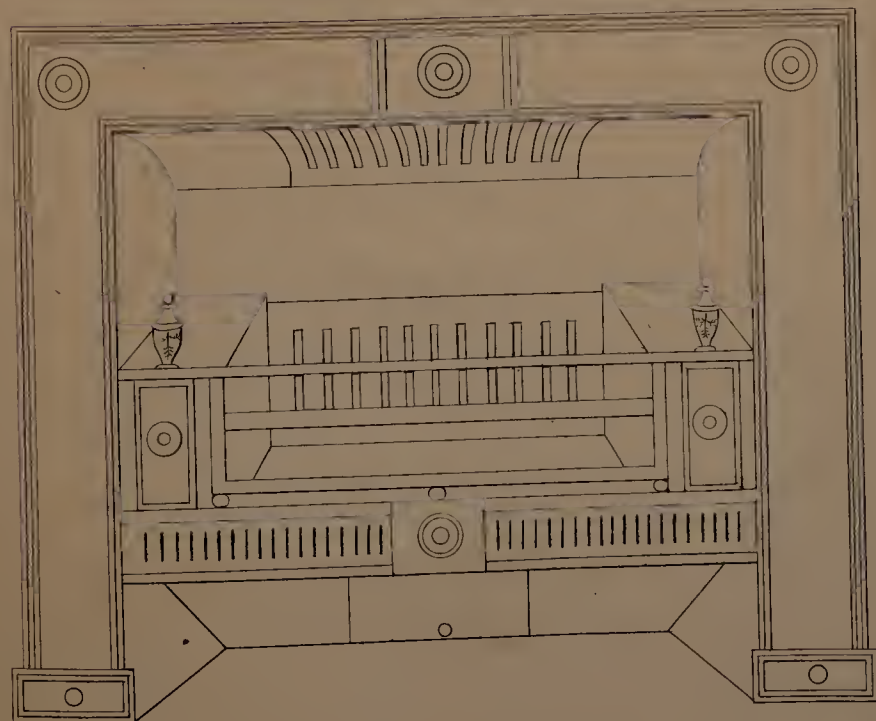
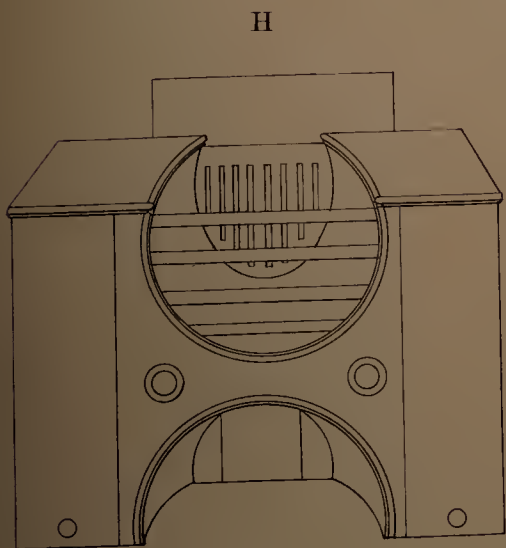
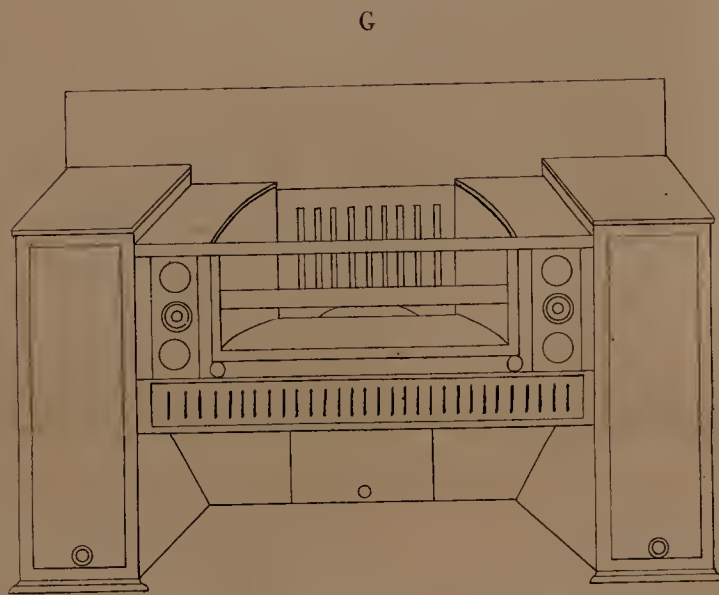
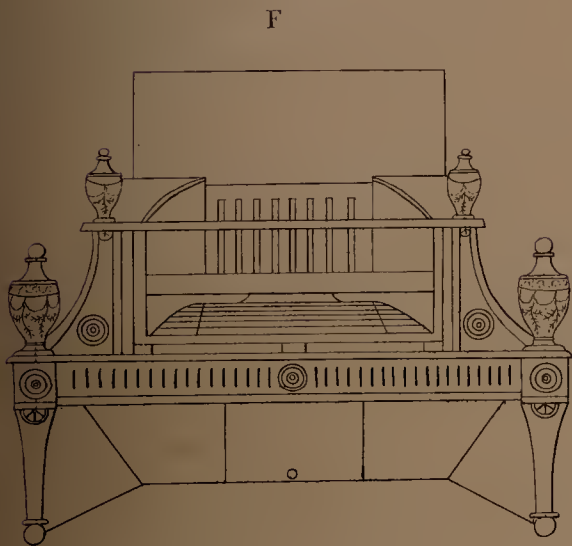
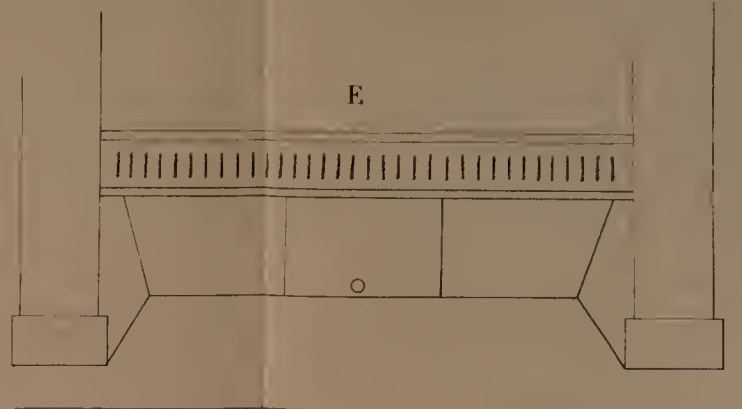
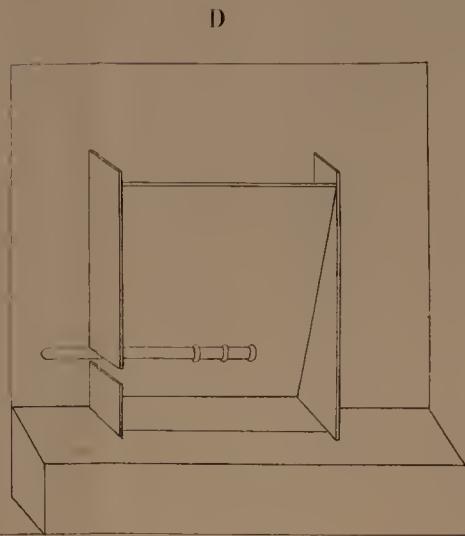
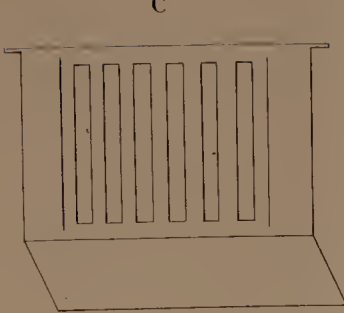
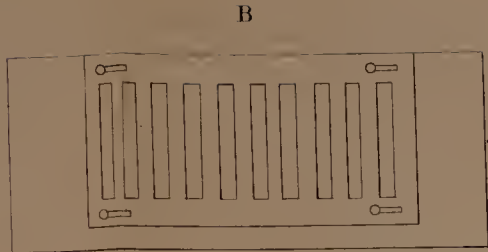
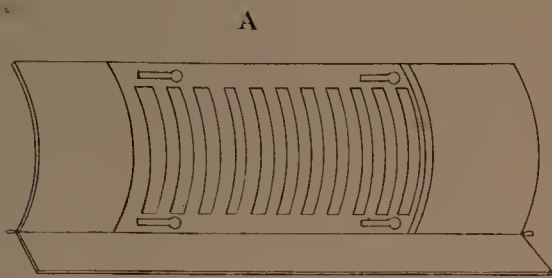
TO ALL TO WHOM THESE PRESENTS SHALL COME, RICHARD WEIGHTMAN, late of Carlton upon Trent, in the County of Nottingham, but now of London, Gentleman, sendeth greeting.

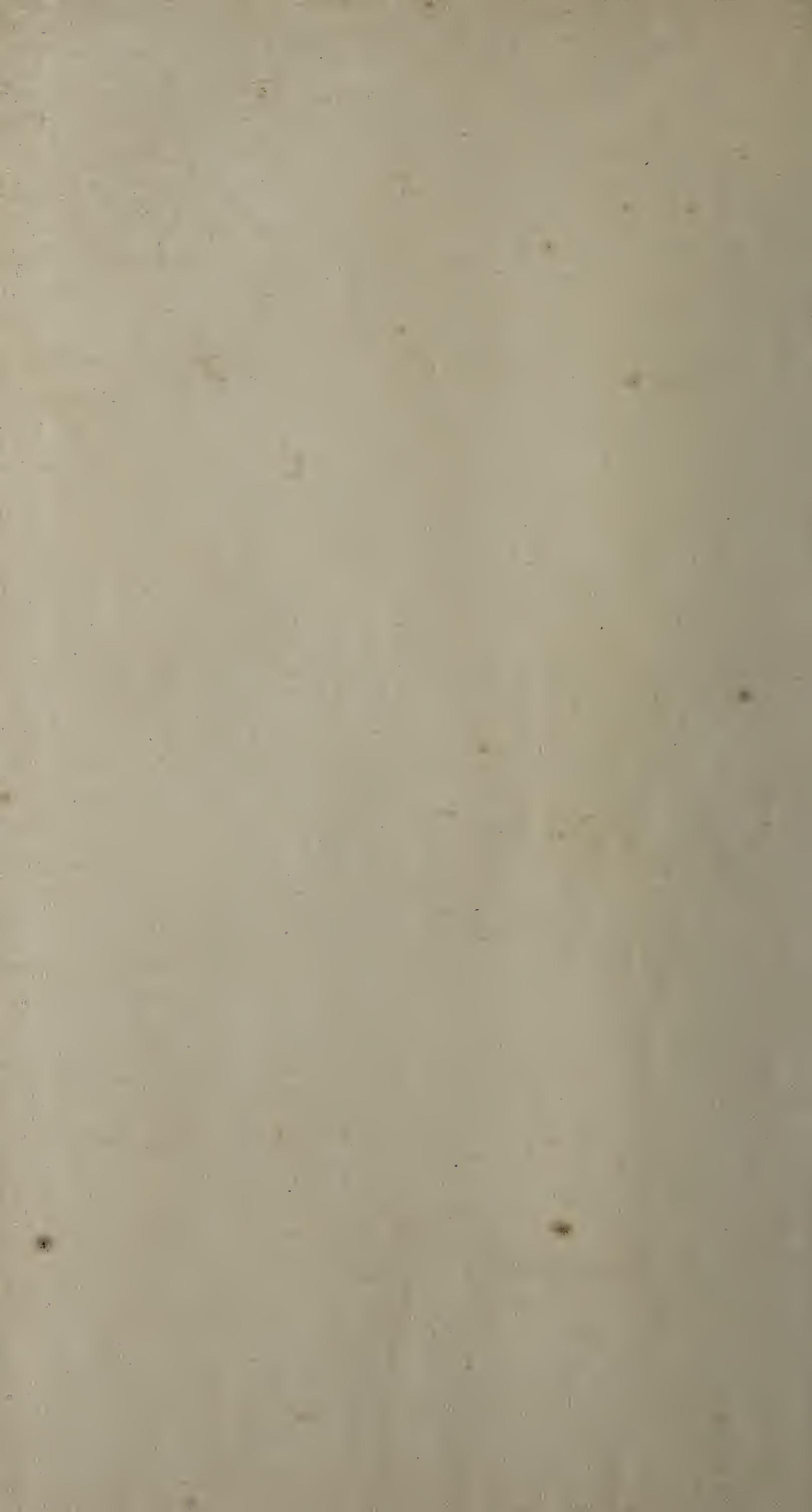
WHEREAS His present Majesty King George the Third, by His Royal
5 Letters Patent, bearing date on or about the First day of this instant July, in the thirty-fifth year of His reign, was graciously pleased to grant to me, the said Richard Weightman, my eñors, adñors, and assigns, and my and their deputy and deputies, servants and agents, the sole making and vending
“A STOVE OR GRATE ON AN IMPROVED PRINCIPLE,” within that part of His
10 Majesty's Kingdom of Great Britain called England, His Dominion of Wales, and Town of Berwick upon Tweed, for the term of fourteen years; in which said Letters Patent is contained a proviso for me, the said Richard Weightman, to describe and ascertain the nature of my said Invention, and in what manner the same is to be performed, by an instrument in writing under
15 my hand and seal, and cause the same to be inrolled in His Majesty's High Court of Chancery within one calendar month next and immediately after the date of the said Letters Patent, as in and by the same, relation being thereunto had, may more fully and at large appear.

NOW KNOW YE, that in compliance with and performance of the said
20 proviso, I, the said Richard Weightman, do hereby describe and ascertain the nature of the said Invention, and in what manner the same is to be performed, in manner following (that is to say):—

Weightman's Improved Stove or Grate.

Take iron or steel or any other metal or composition that will stand the heat of the fire and can be manufactured fit for the purpose, and work the same into such form or forms as is or are described in and by the Drawings or Figures respectively drawn or represented in the margin hereof, enlarging or diminishing the size as occasion may require. The improvement may be 5 applied to any sort of stove, grates, or kitchen ranges, and are also applicable to every machine that holds fire; and if to a close fronted or what is commonly called a register stove be added a register flap or top, as hereafter described, instead of the old flap or top that has hitherto been used, and the fire will be found to draw much better and burn clearer, as well as cast a greater heat 10 into the room. This new flap or register top may be either formed circular or flat, or of any size and shape, with flutes or with holes through, and a plate is made after the same manner to fit upon or under the same, to be made moveable, by a key or any other contrivance answering the same purpose, from the centre boss or any other part of the stove, to slide either backwards or 15 forwards to the left hand or to the right, or to rise upwards and fall downwards, as may be most convenient to the construction of the chimney, so that the draught of air proceeding through the flutes or holes becomes opened and shut at pleasure, by which means the draught of the chimney, as well as the heat in the room, is increased or decreased in proportion as the 20 flues or holes opened, which is more fully explained in the Drawings marked A and B. The first of which (A) represents a circular top or register flap open. The second (B) represents a flat top or register flap shut. The back part of the stove is in two or more pieces, the front piece next the fire, properly called a register back, is moveable, being suspended upon hinges, 25 pivots, or centres, from the top of each cheek or from the fixed part of the back or frame above the fire. The register back may be made plain and solid, or with flutes, or with a hole or holes in it, and connected with the same is fixed a valve, tube, or air pipe, which is introduced into any part of the gut of the chimney, and may in most cases be concealed from the eye, and may be 30 made of iron, metal, bricks, stone, composition, or any other substance that will stand the heat, to which valve, tube, or air pipe is fixed a register stop or slider, by which means it can be opened or shut at pleasure, so as to suit the different draughts of chimneys, and the appearance of smoke will be very much reduced if not entirely consumed, which will produce a clear fire, and a 35 much greater heat will be discharged into the room. At the bottom of the moveable register back is a foot or shelf projecting into the fire, or fixed close under the same, which may be joined to the register back or loose, and made of iron or any metal or any composition that will withstand the heat of fire.





Weightman's Improved Stove or Grate.

Both of these are moveable backwards or forwards by means of a worm or worms, a screw and handle, a key, or any contrivance that answers the same purpose, from the front or any other part of the stove or chimney front. The utility of this part of the Invention is to increase or diminish the space that
5 holds the fire, and when moved quite forward, the foot or shelf being drawn over the grating or bottom of the fire, or close under the same, prevents the air from leading the fire, and consequently it will go out, and when moved quite backwards the same foot or shelf uncovers the mouth of the inclosed ash-pit, box, or receiver (next to be described), into which the ashes, coals, and
10 fire may be thrown when not wanted in the fore part or body of the grate. For a further explanation of this, see the Drawings marked C and D. C represents the back of the stove next the fire; D, the back of the same next the brickwork of the chimney. The space under the fire is inclosed, which forms the ash-pit, box, or receiver before mentioned, and may be made of iron
15 or other metal, of stone, bricks, or any production of nature or art, so that the same does not burn or consume, and is required to be made air-tight. In the front of this there is a contrivance to open and shut, by which the ash-pit, box, or receiver may be emptied of the ashes, cinders, and coals that fall from the fire, and into this ash-pit, box, or receiver external air, the air of the room, or
20 from any other part of the building, may be introduced by means of a hole, tube, or channel through the grating or bottom of the fire, which passing upwards through the body of the fuel in the grate causes the same to burn more briskly, and a slider or stop may be fixed to any part of the stove or room to shut the whole tube or channel through which the air comes, should
25 the fire burn too fast. The Drawing E represents the front of the inclosed ash-pit, box, or receiver. Any one or more or altogether of these improvements may be applied to all sorts of stoves or grates, either to the polished loose standing ones, or to the cast, fronted, Forrest, Bath, or pantheon stoves, as more fully appears by the Drawings F, G, H, and I. F represents a polished
30 or loose stove; G, a Forrest or Bath stove; H, a pantheon or circle stove; I, an inclosed or what is commonly called a register stove. The part of the improvements represented by the Drawings C and E is peculiarly useful when applied to kitchen grates, to which may be fixed a smoke jack with an additional power from the axle of the worm wheel by an extra pinion and
35 wheel, by which means the size of the jack is very much reduced, and consequently may be used to answer in the modern shallow chimnies where others could not be fixed, and will be found in most cases a compleat cure for smoky chimnies, as well as a great saving in the consumption of fuel. This more fully appears by the Drawing marked K, and when the chimney is a very

Weightman's Improved Stove or Grate.

smoky one, by adding the improvement A or B, called a top or register flap, that nuisance will be effectually removed. And the said Richard Weightman doth hereby declare and affirm that the particulars above set forth do contain a full, true, and perfect description of the nature of the said Invention.

In witness whereof, the said Richard Weightman hath hereunto set 5
his hand and seal, the Twenty-fourth day of July, in the year of
our Lord One thousand seven hundred and ninety-five.

RICH^d WEIGHTMAN. (L.S.)

Signed and seal in the presence of

R. SAREL, Berkeley Square,
EDWARD FREDERICK EVANS.

10

SPRANGER.

AND BE IT REMEMBERED, that on the Twenty-seventh day of July, in the year of our Lord 1795, the aforesaid Richard Weightman came before our said Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and everything therein contained and specified, in form 15
above written. And also the Specification aforesaid was stampd according to the tenor of the Statutes made for that purpose.

Inrolled the Twenty-seventh day of July, in the year of our Lord One thousand seven hundred and ninety-five.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1854.